ICSat Assembly Plan

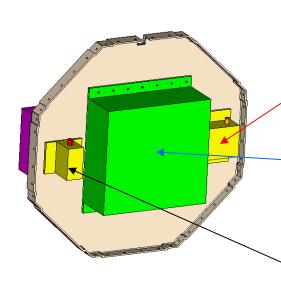




Location and Main Components

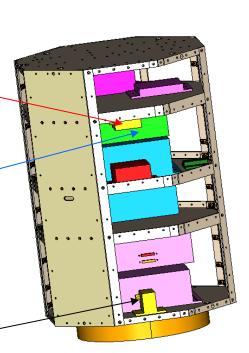


Miteq Power Amplifier (1 of 2)



ICSat

Communications Block



Miteq Low Noise Amplifier (1 of 2)

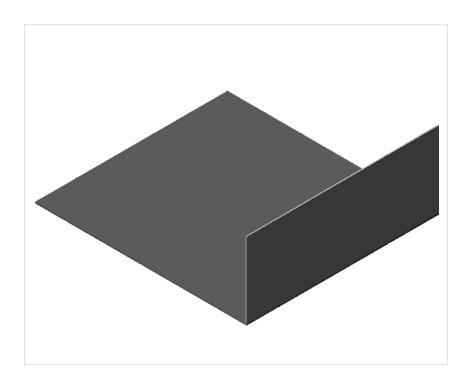
Preliminaries



- ICSat will be assembled in Rickover Hall at the U. S. Naval Academy using a Class 100,000 clean room.
- All metal decks, overheads, and bulkheads will be T6061 aluminum
- All +5V, +12V, and GND lines will be 14-gauge wire.
- The transmit and receive lines are both Coaxial cable.

Aluminum Base plate

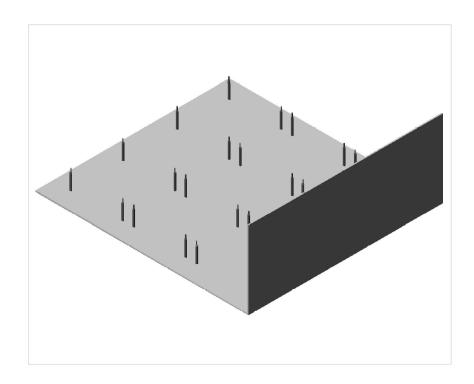




I. 1/16" T6061 Aluminum Base plate with forward bulkhead measured 10"x11"x4".

Securing Standoffs

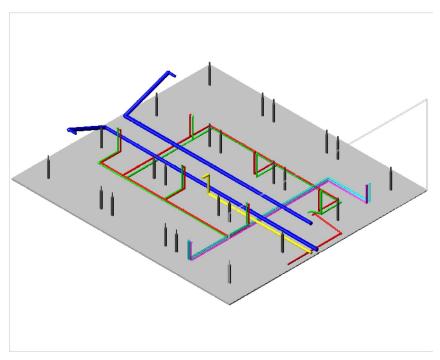




I. Insert circuit board standoffs (24 total).

Wire Harness Installation



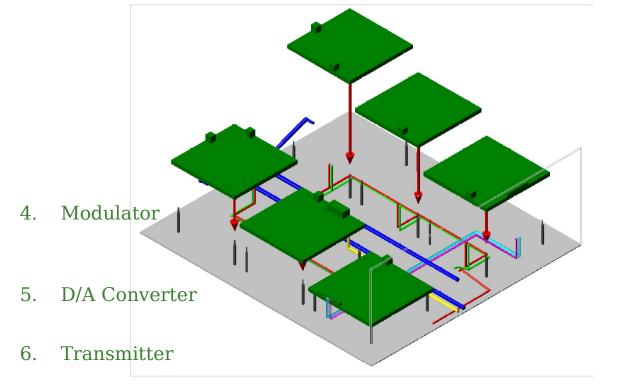


- All wiring and cabling will be cut and secured prior to circuit board installation
- The layering shall be, from bottom to top: power lines (+5V, +12V, GND) discrete signal lines Coaxial Cable

ComBlock Board Installation

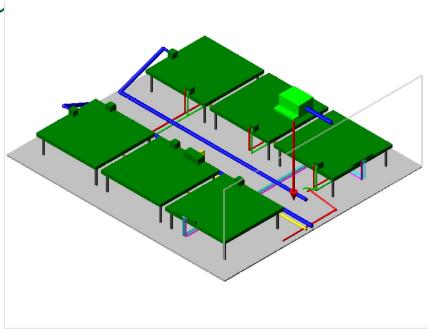
Makerica connection will be made as sub-board to connect a the tradefficient

- Signals/Power
 Conditioning
 and RS422 Interface
- 2. Demodulator
- 3. Receiver

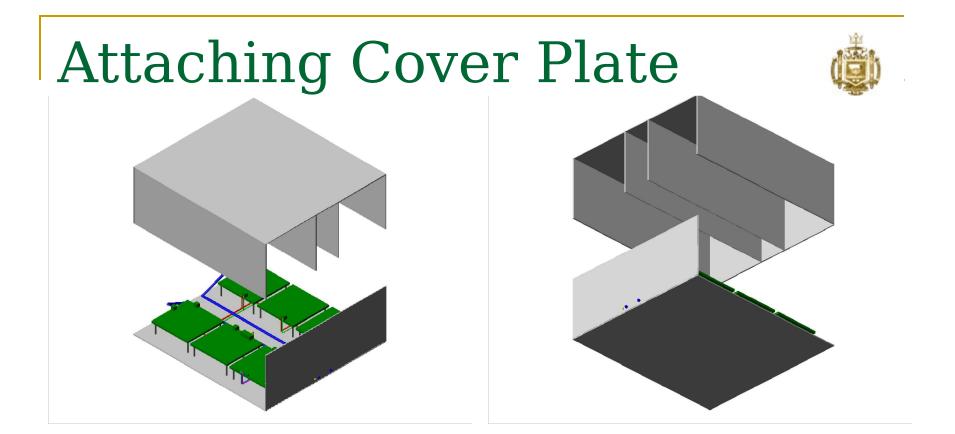


Low Power Amplifier Installation





Mount Mini-Circuits Low Power Amplifier.



T6061 Aluminum cover plate includes two interior bulkheads to dampen any possible interference.